ABSTRACT

In order to provide an electronic timepiece having high transfer efficiency and a compact and thin structure, there are provided a plate-like piezoelectric actuator 341, a driven body 343 driven with a vibration of the piezoelectric actuator 341, and a time-indicating mechanism 5 operating with a drive of the driven body 343 via a transfer mechanism 4.

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FIG. 1

1: POWER SOURCE

4: TRANSFER MECHANISM (SPEED-REDUCTION TRAIN WHEEL)

5: TIME-INDICATING MECHANISM (SECOND, MINUTE, HOUR

HANDS)

8: TIME CORRECTOR (CROWN)

100: POSITION DETECTOR

201: OSCILLATION CIRCUIT

202: FREQUENCY DIVIDER

225: CONTROL CIRCUIT

341: PIEZOELECTRIC ACTUATOR

343: ROTOR

2361: OSCILLATION CIRCUIT

2362: WAVEFORM-SHAPING CIRCUIT

2363: MOTOR-DRIVE CIRCUIT

FIG. 5

2363: DRIVE CIRCUIT

FIG. 6

LONGITUDINAL VIBRATION

FIG. 14

FREQUENCY

IMPEDANCE CHARACTERISTIC